SEQUENCE LISTING

<110> GAGE, FRED
SUHR, STEVEN
GIL, ELAD
SENUT, MARIE-CLAUDE

<120> HORMONE RECEPTOR FUNCTIONAL DIMERS AND METHODS OF THEIR USE

<130> SALK2350

<140> 09/421,971
<141> 1999-10-20

<160> 80

<170> PatentIn Ver. 3.3

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Cys Xaa Xaa Cys Xaa Xaa Asp Xaa Ala Xaa Gly Xaa Tyr Xaa Xaa Xaa
1   5   10   15

Xaa Cys Xaa Xaa Cys Lys Xaa Phe Phe Xaa Arg Xaa Xaa Xaa Xaa Xaa
            20   25   30

Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Lys
        35   40   45

Xaa Xaa Arg Xaa Xaa Cys Xaa Xaa Cys Arg Xaa Xaa Lys Cys Xaa Xaa
    50   55   60

Xaa Gly Met
65

<210> 2
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<220>
<223> Description of Artificial Sequence: Chimeric protein
      linker

<400> 2
Gly Gly Gly Gly Ser
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<210> 3
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<220>
<223> Description of Artificial Sequence: Chimeric protein
      linker

<400> 3
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
  1   5   10

<210> 4
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<212> PRT
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<400> 4
Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Ser
1 5 10

<210> 5
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<400> 5
Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
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<400> 6
Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Ser Gly Ser Thr
1 5 10 15

Lys Gly

<210> 7
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 7
Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys Gly
1 5 10

<210> 8
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<212> PRT
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<400> 8
Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
1 5 10 15

Lys Gly

<210> 9
<211> 14
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<400> 9
Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Glu Phe
1 5 10

<210> 10
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<220>
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Ser Arg Ser Ser Gly
1 5

<210> 11
<211> 5
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<400> 11
Ser Gly Ser Ser Cys
1 5

<210> 12
<211> 28
<212> PRT
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<220>
<223> Description of Artificial Sequence: Trypsin sensitive linker

<400> 12
Ala Met Gly Arg Ser Gly Gly Gly Cys Ala Gly Asn Arg Val Gly Ser
1 5 10 15

Ser Leu Ser Cys Gly Gly Leu Asn Leu Gln Ala Met
20 25

<210> 13
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<220>
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<400> 13
Ala Met Gly Gly Ser Ala Met
1 5

<210> 14
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<400> 14
ggccnnnnng gcc 13

<210> 15
<211> 12
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<400> 15
Gly Pro Gly Gly Gly Ser Gly Gly Gly Ser Gly Thr
1 5 10

<210> 16
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
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<400> 16
Cys Gly Gly Ala Gly Gly Ala Cys Thr Gly Thr Cys Cys Thr Cys Cys
1 5 10 15

Gly

<210> 17
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<400> 17
Gly Pro Gly Gly Gly Ser Gly Gly Gly Ser Gly Thr
1 5 10

<210> 18
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: hRXR N-terminal SfiI primer 5'

<400> 18
gtagaattcg gccaacaggg cccatggaca ccaaacattt c 41

<210> 19
<211> 20
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<220>
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<400> 19
gatgggggag ctcagggtgc 20

<210> 20
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: hRXR N-terminal
SfiI primer 5'

<400> 20
ggagagctcg aggcctactg ca 22

<210> 21
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: hRXR N-terminal
SfiI primer 3'

<400> 21
accatcgatt cagggccctg ttggcccgtg cggcgcctc 39

<210> 22
<211> 41
<212> DNA
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<220>
<223> Description of Artificial Sequence: dmusp N-terminal
SfiI primer 5'

<400> 22
gtagaattcg gccaacaggg cccatggaca actgcgacca g 41

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: dmusp N-terminal
SfiI primer 3'

<400> 23
cagcacgtgg accattgaca 20

<210> 24
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: dmusp N-terminal
SfiI primer 5'

<400> 24
ggagagctct ttctcgagca gctg 24

<210> 25
<211> 49
<212> DNA
<213> Artificial Sequence

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SfiI primer 3'

<400> 25
accatcgatt cagggccctg ttggcccctc cagtttcatc gccaggccg 49

<210> 26
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: VP16 N-terminal
SfiI primer 5'

<400> 26
cataagctta tgggacagac actgatggga cggccc 36

<210> 27
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: VP16 N-terminal
SfiI primer 3'

<400> 27
cagagaccat gggccctgtt ggccccccac c 31

<210> 28
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SfiI primer 5'

<400> 28
ttaccgctag ctccacca 18

<210> 29
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SfiI primer 3'

<400> 29
gtagatatca gggccctgtt ggcccagtcg tcgagt 36

<210> 30
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Annealing two
linker encoding oligonucleotides 5'

<400> 30
gggccaggag gtggctccgg gggaggttca ggcaca 36

<210> 31
<211> 36
<212> DNA
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<220>
<223> Description of Artificial Sequence: Annealing two
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<400> 31
gcctgaacct cccccggagc cacctcctgg ccctgt 36

<210> 32
<211> 47
<212> DNA
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<220>
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ecdysone receptor fragment polylinker 5'

<400> 32
aagcttgaga gatctgggac ggcgcccccg gggctagcgg gccaaca 47

<210> 33
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<212> PRT
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<400> 33
Ile Trp Asp Gly Ala Pro Gly Ala Ser
1 5

<210> 34
<211> 10
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<220>
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<400> 34
Ala Met Gly Gly Ser Gly Gly Ser Ala Met
1 5 10

<210> 35
<211> 13
<212> PRT
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<400> 35
Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Ala Met
1 5 10

<210> 36
<211> 16
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<223> Description of Artificial Sequence: Chimeric protein linker

<400> 36
Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Ala Met
1 5 10 15

<210> 37
<211> 19
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<220>
<223> Description of Artificial Sequence: Chimeric protein
linker

<400> 37
Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly
1 5 10 15

Ser Ala Met

<210> 38
<211> 22
<212> PRT
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<220>
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linker

<400> 38
Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly
1 5 10 15

Ser Gly Gly Ser Ala Met
20

<210> 39
<211> 25
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<220>
<223> Description of Artificial Sequence: Chimeric protein
linker

<400> 39
Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly
1 5 10 15

Ser Gly Gly Ser Gly Gly Ser Ala Met
20 25

<210> 40
<211> 28
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<223> Description of Artificial Sequence: Chimeric protein
linker

<400> 40
Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly
1 5 10 15

Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Ala Met
20 25

<210> 41
<211> 31
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<400> 41
Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly
1 5 10 15

Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Ala Met
20 25 30

<210> 42
<211> 34
<212> PRT
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<223> Description of Artificial Sequence: Chimeric protein linker

<400> 42
Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly
1 5 10 15

Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
20 25 30

Ala Met

<210> 43
<211> 37
<212> PRT
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<220>
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<400> 43
Ala Met Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly
1 5 10 15

Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
20 25 30

Gly Gly Ser Ala Met
35

<210> 44
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Ala Met Gly Gly Gly Ser Ala Met
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<210> 45
<211> 12
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<210> 46
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<210> 47
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<220>
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<400> 47
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Gly Ser Ala Met
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<210> 48
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1 5 10 15

Gly Ser Gly Gly Gly Ser Ala Met
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<210> 49
<211> 28
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Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met
20 25

<210> 50
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<212> PRT
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1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met
20 25 30

<210> 51
<211> 36
<212> PRT
<213> Artificial Sequence

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<400> 51
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1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
20 25 30

Gly Ser Ala Met
35

<210> 52
<211> 40
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<220>
<223> Description of Artificial Sequence: Chimeric protein linker

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Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
20 25 30

Gly Ser Gly Gly Gly Ser Ala Met
35 40

<210> 53
<211> 44
<212> PRT
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Chimeric protein linker

<400> 53
Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
20 25 30

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met
35 40

<210> 54
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 54
Ala Met Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
1 5 10 15

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
20 25 30

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Met
35 40 45

<210> 55
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 55
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1 5

<210> 56
<211> 14
<212> PRT
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<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 56
Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met
1 5 10

<210> 57
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 57
Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser Ala Met

<210> 58
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 58
Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser Gly Gly Gly Gly Ser Ala Met
20

<210> 59
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 59
Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met
20 25

<210> 60
<211> 34
<212> PRT
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<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 60
Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

Ala Met

<210> 61
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 61
Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

Gly Gly Gly Gly Ser Ala Met
35

<210> 62
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 62
Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met
35 40

<210> 63
<211> 49
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 63
Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala
35 40 45

Met

<210> 64
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 64
Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
35 40 45

Gly Gly Gly Ser Ala Met
50

<210> 65
<211> 59
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 65
Ala Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
1 5 10 15

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
35 40 45

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Met
50 55

<210> 66
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 66
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 67
<211> 20
<212> PRT
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<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 67
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser
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<210> 68
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 68
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25

<210> 69
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 69
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

<210> 70
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 70
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser
35

<210> 71
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 71
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser
35 40

<210> 72
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 72
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
35 40 45

<210> 73
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 73
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
35 40 45

Gly Ser
50

<210> 74
<211> 55
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Chimeric protein linker

<400> 74
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
35 40 45

Gly Ser Gly Gly Gly Gly Ser
50 55

<210> 75
<211> 60
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<223> Description of Artificial Sequence: Chimeric protein linker

<400> 75
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
35 40 45

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
50 55 60

<210> 76
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 76
acgactgcat ag 12

<210> 77
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<220>
<221> CDS
<222> (1)..(12)

<400> 77
atg gac acc aaa 12
Met Asp Thr Lys
1

<210> 78
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<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<220>
<221> CDS
<222> (1)..(33)

<400> 78
acg act ggg cca aca ggg ccc atg gac acc aaa 33
Thr Thr Gly Pro Thr Gly Pro Met Asp Thr Lys
1 5 10

<210> 79
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 79
Met Asp Thr Lys
1

<210> 80
<211> 11
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 80
Thr Thr Gly Pro Thr Gly Pro Met Asp Thr Lys
1 5 10